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KAWAMURA SATOJI**(54) LAMINATE TYPE FILTER UNIT MADE OF FLUORINE-CONTAINED RESIN**

(57) Abstract:

PURPOSE: To provide the titled filter unit for precise filtration with improved liquid-tightness, obtained by a method wherein a network part is provided to the disc like part of a support made of a fluorine-contained resin so as to be communicated with the central passing orifice thereof and porous membrane filter materials made of a fluorine-contained resin are fusion-bonded to the upper and the lower sides of the disc like part by heating.

CONSTITUTION: In a laminate type filter unit, a support 1 is formed of a boss part 3 having a central passing orifice 2 and a disc part 4. To the disc part 4, an inner flat part 5, a network part 6 and an outer flat part 7 are formed in a ring like form and plural openings 6a are provided to the network part 6 to be communicated with the central passing orifice 2 by an internal passages 8. Ring like filter materials 21 comprising porous membranes made of a fluorine contained resin are arranged to the upper and the lower surfaces of the disc part 4 and the inner peripheral flange part 22 thereof are fixedly attached to the inner flat part 5 with liquid-tightness by fusion-bonding while the outer peripheral flange part thereof is

similarly fixed to the outer flat part 7 with liquid-tightness to form a ring like seal part. By this structure, the filter unit can pressure the action of precise filtration without being deteriorated by a filtrate.

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